

Massachusetts Department of Environmental Protection - Drinking Water Program

CIO₄

Perchlorate Report

PWS Name	3213000			City / Tov	vn: NO	RTH READIN	G			
PWS Name: North Re		eading Water Dept.				NORTH READING				
		9	., Борт.			PWS Class	COM N	ITNC TNC		
DEP LOCATION (LOC) ID#		DEP Lo	cation Name		Sample Infe	ormation	Date Collected	Collected E		
		St Andover	Combined	⊠ (M □ (S		☐ (R)aw ☑ (F)inished	10/20/2016	M.E.C.		
Routine or Special Samp	1	riginal, Resubr Confirmation F	nitted or		If R	esubmitted Repo	ort, list below:			
			Confirmation	(1) Reason for Resubmission ☐ Resample ☐ Reanalysis ☐ Report Correction			(2) Collection Date of Original Sa			
				at were on-line during c	inalysis 🗌 F	Report Correction				
		The sample	, not any sources the	at were on-line during c	ollection).					
mary Lab MA		_	_	lpha Analytical		275325200	Subcontra	acted? (Y/N)		
CONTAMINANT	Result	UOM	MCL MDI	MRL	Lab Meti	hod Date A	nalyzed	Lab Sample ID#		
ERCHLORATE	0.119	μg/L	2.0 0.05	0 0.050	332.0	10/2	24/16	L1633733-03		
ONDUCTIVITY		umhos/cm					- 110	L1033733 - 03		
chlorate analysis r	requires the use of a Ma	DE								
tively present but	tentatively quantified)	mum Detection I	imit (MDL) and the	Minimum Reporting Le	vel (MRL) mi	ust be reported as	estimated (J) value	es (i.e. perchlorate		
ield samples analy sted with and witho	zed with either EPA Mout a perchlorate spike	othod 214 0 F	DA M. II. 1011	Minimum Reporting Le ith measured native perchlorate concentration						
ield samples analy sted with and without SAMPLE NOTES	zed with either EPA Mout a perchlorate spike	ethod 314.0 or E approximately e	PA Method 314.1 w qual to the native pe	ith measured native per erchlorate concentration	rchlorate con	centrations betwe	en 0.8 µg/L and 2.0) μg/L must be		
ield samples analysted with and without SAMPLE NOTES analysis and Spontage of the compound	zed with either EPA Mout a perchlorate spike	ethod 314.0 or E approximately e	PA Method 314.1 w qual to the native pe		r samples Spike Recovery	subject to pret	en 0.8 µg/L and 2.0) μg/L must be		
eld samples analysted with and without SAMPLE NOTES	vzed with either EPA Mout a perchlorate spike B pike Recovery (req	ethod 314.0 or E approximately e uired for resu	PA Method 314.1 w qual to the native pe Its between 0.8 p	ug/L and 2.0 µg/L o	r samples	subject to pret	en 0.8 µg/L and 2.0) μg/L must be		
SAMPLE NOTES analysis and Spompound erchlorate	vzed with either EPA Mout a perchlorate spike B pike Recovery (req	ethod 314.0 or E approximately e uired for resu	PA Method 314.1 w qual to the native pe Its between 0.8 p	ug/L and 2.0 µg/L o	r samples Spike Recovery	subject to pret	en 0.8 µg/L and 2.0) μg/L must be		
SAMPLE NOTES analysis and Spompound archlorate analysis) rchlorate (spike) I certify un ized to fill out this accurate and compound such analysis	pike Recovery (requestion for many the information for many the information for many the information for the best extent for results electronical for the best extent for results electronical for the formation for many the information for the formation for the form	uired for resu MDL (µg/L) that I am the ation contained of my knowledge ally mail TWO	PA Method 314.1 w qual to the native pe Its between 0.8 MRL (µg/L) Person herein is	μg/L and 2.0 μg/L or Spike Concentration (μg/L) Primary Lab Dire	r samples Spike Recovery (%)	subject to pret Lab N ature:	reatment in met	hod EPA 314.0 Date Analyzed		
SAMPLE NOTES analysis and Spompound orchlorate analysis) rchlorate (spike) I certify unized to fill out this courate and compound submitting thes in	pike Recovery (requestion for many the information for many the information for many the information for the best extent for results electronical for the best extent for results electronical for the formation for many the information for the formation for the form	uired for resu MDL (µg/L) that I am the ation contained of my knowledge ally mail TWO	PA Method 314.1 w qual to the native pe Its between 0.8 MRL (µg/L) Person herein is	ug/L and 2.0 μg/L or Spike Concentration (μg/L)	r samples Spike Recovery (%)	subject to pret Lab N ature:	reatment in met	hod EPA 314.0 Date Analyzed		



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DEP LOCATION (LOC) ID# DEP Location Name Sample Information Date Collected 10010 Lakeside Gwtp - (2,3,5,7g) Confirmation Confirmation Routine or Special Sample Confirmation Report Confirmation Report Confirmation Report Confirmation Resubmitted or Confirmation Resample Reanalysis Report Correction SAMPLE NOTES - (Such as, if a Manifold/Multiple sample, list any sources that were on-line during collection). II. ANALYTICAL LABORATORY INFORMATION: Primary Lab MA Cert. #: M-MA086 Analysis Lab Name: Alpha Analytical CONTAMINANT Result UOM MCL MDL MRL Lab Method Date Analyzed PERCHLORATE 0.240 Date Analyzed	TNC TNC Collected By M.E.C.
DEP LOCATION (LOC) ID# DEP Location Name DEP Location Name DEP Location Name Sample Information Date Collected 10010 Lakeside Gwtp - (2,3,5,7g) Routine or Special Sample Original, Resubmitted or Confirmation RS SS Original Resubmitted Confirmation Resumple Resubmission (2) Collection Date SAMPLE NOTES - (Such as, if a Manifold/Multiple sample, list any sources that were on-line during collection). I. ANALYTICAL LABORATORY INFORMATION: Primary Lab MA Cert. #: M-MA086 Primary Lab Name: Alpha Analytical Subcontract Analysis Lab MA Cert. #: M-MA086 Analysis Lab Name: Alpha Analytical CONTAMINANT Result UOM MCL MDL MRL Lab Method Date Analyzed PERCHLORATE 0.240 Date Analyzed	Collected By M.E.C.
DEP Location Name Sample Information Date Collected 10010 Lakeside Gwtp - (2,3,5,7g) (M)ultiple (R)aw (S)ingle (S)ingle	Collected By M.E.C.
Routine or Special Sample Original, Resubmitted or Confirmation Report (1) Reason for Resubmission Original Resubmitted Or Confirmation Resubmitted Period (1) Reason for Resubmission Resubmitted Report, list below: (2) Collection Date Resubmitted Report Correction Resample Reanalysis Report Correction Resubmitted Report, list any sources that were on-line during collection). Result Notes Alpha Analytical Subcontraction Subcontraction Subcontraction Analysis Lab Ma Cert. #: M-MA086 Analysis Lab Name: Alpha Analytical CONTAMINANT Result UOM MCL MDL MRL Lab Method Date Analyzed PERCHLORATE 0.240 Mg/L 2.0 0.050 0.050 2.22.0 m 10.050	ite of Original Sam
Routine or Special Sample Original, Resubmitted or Confirmation Report (1) Reason for Resubmission (2) Collection Date Result Resubmitted Confirmation Resample Reanalysis Report Correction Result Resu	ite of Original Sam
☑ RS ☐ SS ☑ Original ☐ Resubmitted ☐ Confirmation ☐ Resample ☐ Reanalysis ☐ Report Correction SAMPLE NOTES - (Such as, if a Manifold/Multiple sample, list any sources that were on-line during collection). I. ANALYTICAL LABORATORY INFORMATION: Primary Lab MA Cert. #: M-MA086 Primary Lab Name: Alpha Analytical Subcontract Unalysis Lab MA Cert. #: M-MA086 Analysis Lab Name: Alpha Analytical CONTAMINANT Result UOM MCL MDL MRL Lab Method Date Analyzed PERCHLORATE 0.240 Mg/L 2.0 0.050 0.0	
SAMPLE NOTES - (Such as, if a Manifold/Multiple sample, list any sources that were on-line during collection). I. ANALYTICAL LABORATORY INFORMATION: Primary Lab MA Cert. #: M-MA086	
Primary Lab MA Cert. #: M-MA086 Primary Lab Name: Alpha Analytical Subcontract analysis Lab MA Cert. #: M-MA086 Analysis Lab Name: Alpha Analytical CONTAMINANT Result UOM MCL MDL MRL Lab Method Date Analyzed PERCHLORATE 0.240 ug/L 2.0 0.05	
PERCHLORATE 0.240 ug/L 2.0 0.050 0.050 232.0 10.050 0.050	icted? (Y/N) N
	Lab Sample ID#
0.050 0.050 332.0 10/24/16 L	L1633733-01
CONDUCTIVITY umhos/cm	11033733 01
erchlorate concentrations between the Minimum Detection Limit (MDL) and the Minimum Reporting Level (MRL) must be reported as estimated (J) values sitively present but tentatively quantified). field samples analyzed with either EPA Method 314.0 or EPA Method 314.1 with measured native perchlorate concentrations between 0.8 µg/L and 2.0 ested with and without a perchlorate spike approximately equal to the native perchlorate concentration.	
eanalysis and Spike Recovery (required for results between 0.8 μg/L and 2.0 μg/L or samples subject to pretreatment in meth	hod EPA 314.0)
Compound Result MDL MRL Spike Spike	Date Analyzed
Perchlorate reanalysis)	
Perchlorate (spike)	
I certify under penalties of law that I am the person orized to fill out this form and the information contained herein is accurate and complete to the best extent of my knowledge. Primary Lab Director Signature: Date: 10/31/20 In which you received this report or no later than 10 days after the end of the part of)16
PREVIEW STATUS (Initial & Date)	nd of the month
Accepted Disapproved Comments	end of the month



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Perchlorate Report

PWS ID #:	3213000					ampling Schedule (WQSS) to help complete this form						
PWS Name:		North Reading Water Dept.					NORTH READING					
TTO Traine:	North Re	ading water	er Dep	it.			PW	/S Class	COM 🗵	NTNC TNC		
DEP LOCATION (LOC) ID#		DEP Location Name				Sample Information			Date Collect	ed Collected		
10291	Railroad B	Railroad Bed Gwtf (West Village)- Fin				☐ (M)ultipl ☑ (S)ingle	le (R)	law inished	10/20/2010	6 M.E.C.		
Routine or Special Samp	ole O	Original, Resubmitted or Confirmation Report				If Resubmitted Repo				ort, list below:		
⊠ RS □ S		☐ Original ☐ Resubmitted ☐ Confirmation			(1) Reason for Resubmission ☐ Resample ☐ Reanalysis ☐ Report Corre				(2) Collection Date of Original Sa			
	(Such as, if a Manifold/I				☐ Resample	☐ Reanalys	sis 🗌 Report	Correction				
ANALYTICA rimary Lab MA nalysis Lab MA		INFORMAT Primary Analysis	y Lab N		pha Analyt pha Analyt				Subco	ntracted? (Y/N)		
CONTAMINANT	Result	UOM	MCL		MR	. 1	ab Method	Date A	nalyzed	Lab		
PERCHLORATE	0.348	µg/L	2.0	0.050	-			Date A	maryzed	Sample ID#		
ONDUCTIVITY	0.546		ADDITION OF	0.050	0.05	50	332.0	10/2	24/16	L1633733-02		
	equires the use of a Ma	umhos/cm										
field samples analy sted with and with	tions between the Minin tentatively quantified). rzed with either EPA Me out a perchlorate spike a	ethod 314.0 or E approximately e	EPA Meth	hod 314.1 with the native pen	h measured na chlorate conce	ative perchlor entration.	rate concentra	itions betwe	en 0.8 µg/L and	1 2.0 μg/L must be		
Compound	Result (µg/L)	MDL (µg/L)	N	MRL		Spike S Concentration Rec		pike covery Lab I		Date Analyzed		
Perchlorate reanalysis)					(µg/L)		(%)					
erchlorate (spike)												
I certify un	nder penalties of law is form and the informa	tion contained	L !- !	n P	rimary La	b Director			Joseph C			
accurate and comp submitting thes	se results electronical	llv mail TWO	conies	of this repo	rt to your DE	P Regional	Date Office no la			1/2016 he end of the month		
accurate and comp t submitting thes in	se results electronical which you received t US (Initial & Date)	llv mail TWO	conies	of this report than 10 day	o uner the e	P Regional nd of the re						